Biology



Master of Biology, Directed Study track

This degree map is a SAMPLE only. It is based on the current Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment and number of courses successfully completed each semester.

Sample 2 Year Plan- Full Time - Spring Start

		First Year			
Spring Courses	Credits	Summer Courses	Credits	Fall Courses	Credits
STAT546 Bioinformatics	3			Elective	3
Elective	3			Elective	3
Identify Directed Study and mentor				Directed Study Proposal	
Semester Total	6	Semester Total	0	Semester Total	6

Second Year					
Spring Courses	Credits	Summer Courses	Credits	Fall Courses	Credits
Elective	3			Elective	3
Elective	3			Elective	3
BIOL 593 Directed Study in Biology	3			Elective	3
Oral Examination				Presentation of Directed Study	
Semester Total	6	Semester Total	0	Semester Total	6

Total Credits: 30

Part- time or Full-time completion options are available.

Degree Requirements

This course map indicates full-time matriculation and a Spring semester start. However, the review of applications and acceptance into this program is in a rolling basis. A student can start in any semester and can choose a part-time option as well. An adviser will establish a course map for you if you decide to start in Spring/Summer semesters or decide to take a part-time option.

Students must complete all 30 credits and all course requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements.

Campus Locations

Bloomsburg	\square Online; \boxtimes In-person; \square Blended
Lock Haven	\square Online; \boxtimes In-person; \square Blended
Mansfield	\square Online; \boxtimes In-person; \square Blended
Clearfield	☐ Online; ☐ In-person; ☐ Blended

Biology



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A. Biostatistics (3 credits)

___STAT 546 Biostatistics

B. Directed Study (3 credits)

___BIOL 594 Master of Science Thesis

C. Topic Specific Electives (24 credits)

BIOL 500 Dendrology (3)	BIOL 550 Developmental Biology (3)
BIOL 501 Entomology (3)	BIOL 551 Conservation Biology (3)
BIOL 519 Ecosystems (3)	BIOL 552 Freshwater Ecology (3)
BIOL 520 Global Change Bio (3)	BIOL 553 Freshwater Entomology (3)
BIOL 530 Evolution (3)	BIOL 554 Algae of Freshwater Eco (3)
BIOL 531 Mycology (3)	BIOL 555 Community Ecology (3)
BIOL 532 Ornithology (3)	BIOL 556 Enviro Toxicology (3)
BIOL 533 Ichthyology (3)	BIOL 560 Plants, Animals, Natural History of PA (3)
BIOL 534 Herpetology (3)	
BIOL 535 Conservation Genetics (3)	BIOL 561 Animal Behavior (3)
BIOL 538 Environmental Policies (3)	BIOL 562 Cancer Biology (3)
BIOL 539 Hum Dim in Fisheries Mg (3)	BIOL 565 Medical Genomics (3)
BIOL 541 Mg of Lg Impoundments (3)	BIOL 566 Bioinformatics (3)
BIOL 543 Molecular Biology (3)	*BIOL 570 Tissue Culture (1)
*BIOL 544 Molecular Biology lab (1)	BIOL 571 Endocrinology (3)
BIOL 545 Pharmacology (3)	BIOL 573 Environmental Physiology (3)
BIOL 546 Immunology (3)	BIOL 574 Human Physiology (3)
*BIOL 547 Immunology lab (1)	BIOL 575 Animal Cell Physiology (3)
BIOL 548 Advanced Parasitology (3)	BIOL 576 Neurophysiology (3)

BIOL 577 Plant Physiology (3)
BIOL 579 Comparative Animal Physiology (3)
*BIOL 580 Integrated Physiology lab (1)
BIOL 586 Analysis & Comm of Bio Data (3)
BIOL 587 Genomics and Genetic Engineering(2)
BIOL 589 Special Topics in Biology (3)3
BIOL 598 Internship in Biology (3-6crs)

*Take with BIOL 587